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		throughout District Three.
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15.	Ford & Kankakee	Perform Phase II services for the removal and replacement of two structures.
16.	LaSalle	Perform Phase II services for the removal and replacement of two structures on IL 71.
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17.	Various	Perform Phase I/II services for work on various projects throughout District Five.
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22.	Various	Perform Phase I/II services for work on various projects throughout District Eight.
23.	Various	Perform Phase I/II services for work on various projects throughout District Eight.
24.	Various	Perform construction inspection services for work on various projects throughout District Eight.
25.	Various	Perform Phase I/II services for work on various projects throughout District Eight.
26.	Various	Perform land and route surveys for various projects throughout District Eight.
27.	Various	Perform land and route surveys for various projects throughout District Eight.

BUREAU OF BRIDGES & STRUCTURES

28.	Various	Perform structural steel shop fabrication inspections statewide.

REGION 1 DISTRICT 1

29.	Will	Perform as a general consultant for Phase II on I-55 from Plainfield Rd to Naperville Rd.
30.	Will	Perform as a general consultant for Phase II on I-55 from I-80 to Plainfield Rd.
31.	Various	Perform route surveys for various projects on I-55, from I-80 to Naperville Road.

1. <u>Job No. C-91-217-00, FAP 575 (US 30), Statesville Rd/Essington Rd to West of Larkin Ave., Will County, Region 1/District One.</u>

This project requires 25% DBE participation.

The **Complexity Factor** for this project is **0.003**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 14, 2005** at **10:00 A.M.** at the District One Office in **Schaumburg.**

Phase III engineering services are required for the improvement of US 30 from approximately Statesville Rd/Essington Rd. to west of Larkin Ave. Work is anticipated to consist of PCC concrete reconstruction, bituminous resurfacing, concrete curb and gutter culvert replacement, culvert widening and extension, guardrail installation, construction of a closed drainage system, landscaping and all other work required to complete the project. All work for this project will be in English units.

The following structures are included in this project:

- 099-C002 (Rock Run Creek)

The department will furnish the Consultant with Plans and Specifications. Quality Assurance (QA) oversight and Contractor's Quality Control (QC) by the same Consultant, or one of their Sub-consultants, on the same project or on material coming from the same plant are prohibited.

The estimated construction cost for this project is $10,315,000. The Consultant's work includes providing staff, vehicles and appropriate test equipment necessary to complete this project. The Consultant will furnish a Liaison Engineer and an adequate staff to perform the duties required to fulfill the engineering requirements in accordance with the departmental policies for this project.

The Consultant will also provide the tools of the trade. The Consultant will perform on site inspection, layout including design changes, provide construction layout when not provided for in the contract plans, provide geotechnical inspection and testing, prepare records, maintain documentation, submit pay estimates, change orders and any other duties that would require the services of an engineer to complete this project on a timely basis and in accordance with State specifications. The Consultant must complete and submit final measurements, calculations and final contract records documents to the department no later than six (6) weeks after the completion of the project. Construction completion date is October 31, 2007 + 15 working days.

Key personnel listed on **Exhibit A** for this project must include:

- The Liaison Engineer.

- The Materials Coordinator.

- The Document Technician. (The person actively performing the documentation on the project must possess a current IDOT Construction Documentation certificate and must

be ICORS trained. Include the Documentation Certificate Number for IDOT Class S-14, Documentation Contract Quantities.

- The Materials QA Technician.

- The Survey Chief.

Firms must be prequalified in the **Special Services (Construction Inspection)** category to be considered for this project.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

2. **Job No. D-91-097-04, FAP 343 (IL 68), over C&W Railroad and US 14, Cook County, Region 1/District One.**

This project requires 20% DBE participation.

The **Complexity Factor** for this project is **0.003**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 20, 2005** at **9:00 A.M.** at the District One Office in **Schaumburg.**

Phase II engineering services are required for the preparation of plans, specifications and estimates for the reconstruction of the diamond interchange at IL 68 and US 14. IL 68 will be reconstructed from east of Ela Rd. to east of US 14 for a distance of approximately 0.30 miles. The proposed improvement includes the removal and replacement of the structure carrying IL 68 over the US 14 and the structure carrying IL 68 over the Union Pacific Railroad. The existing 5 lane section of the structure going over US 14 will be widened to a 6 lane section consisting of two 12 foot through lanes in each direction separated by 28 feet. The 28 foot area will provide one 12 foot left turn lane in each direction and a four foot barrier median. The exisiting 4 lane section of the structure going over the Union Pacific Railroad will be reconstructed to consist of two 12 foot through lanes in each direction seperated by a variable width barrier median. A retaining wall, approximately 450 feet long, will be constructed in the NW quadrant of the interchange to avoid impacts to the adjacent Forest Preserve. Additional improvements consist of ramp realignment, traffic signals at the ramp intersections, and roadway lighting. The improvement will be stage constructed. The Consultant's work will include the preparation of contract plans for roadway, structures, lighting, and traffic signals, special provisions, estimates, geotechnical borings and analysis, erosion control plans, full survey, and all other work necessary to complete the project. All work for this project will be in English units.

The following structures are included in this project:

- IL 68 over US 14, Exist S.N. 016-2410: This single span structure will be removed and completely replaced. The proposed 6 lane cross section will consist of two 12 foot through lanes in each direction seperated by one 12 foot left turn lane in each direction.

- IL 68 over the Union Pacific Railroad, Exist S.N. 016-0523: This single span structure will be removed and completely replaced. The proposed 4 lane cross section will consist of two 12 foot through lanes in each direction seperated by a variable width barrier median.

The department will furnish the Consultant with available microfilm, Bridge Condition Report, Project Report, Hydraulic Report, and pavement design.

The estimated construction cost for this project is $11,880,000. The Consultant's work includes preparation of contract plans, specifications and estimates including TS&L and structure plans for IL 68 over US 14 and Union Pacific Railroad, structure boring and analysis, complete drainage system design, survey, maintenance of traffic plans and all other work required to complete the project. This work must be completed by June 7, 2006.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform/supervise the work in the area of drainage calculations and preparation of the Drainage Report (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway: Advanced Typical)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

3. Job No. D-91-071-05, FAP 326 (IL 47), Reed Road to Kreutzer Road, McHenry County, Region 1/District One.

This project requires 20% DBE participation.

The **Complexity Factor** for this project is **0.003.**

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 19, 2005** at **1:00 P.M.** at the District One Office in **Schaumburg.**

Phase II engineering services are required for the preparation of contract plans, estimates and special provisions for the widening/reconstruction of IL 47 from approximately Reed Rd. to Kreutzer Rd. The proposed project consists of two 12 foot wide through lanes in each direction with curb and gutter, a 22 foot and variable width barrier median, and barrier curb and gutter or shoulder on the outside lanes. The existing continuous span concrete slab bridge crossing at the South Branch Kishwaukee River will be removed. The Consultant's work will include Type, Size and Location drawings and structure plans for a proposed triple box culvert at the South Branch Kishwaukee River, roadway soils report, structure geotechnical borings and analysis, traffic signal plans and railroad interconnect and sequence chart development, supplemental survey, highway drainage, traffic staging, erosion control plans and all other work required to complete the project. The total project length is approximately 2.6 miles. All work for this project will be in English units.

The following structures are included in this project:

- South Branch Kishwaukee River (S.N. 056-0026). The scope of work is removal of existing closed abutment bridge and replacement with a triple box culvert.

The department will furnish the Consultant with The Project Report, Location Drainage Study, available microfilm plans, right-of-way plans and any other available information.

The estimated construction cost for this project is $15,200,000. The Consultant's work includes the preparation of contract plans, special provisions and estimates including TS&L and structure plans, highway drainage, traffic staging plans, roadway soils report, structure geotechnical boring and analysis, traffic signal plans and railroad interconnect sequence chart development, supplemental survey, erosion control plans, and all other work to complete the project. This work must be completed by June 1, 2007.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform/supervise the work in the area of drainage calculations and preparation of the Drainage Report (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway: Simple)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

4. **Job No. C-91-090-05, Construction Engineering, Various Routes, Various Counties in Region 1/District One.**

This project requires 20% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 14, 2005** at **8:00 A.M.** at the District One Office in **Schaumburg.**

Phase III engineering services are required to assist department resident engineers/technicians on various construction projects throughout District One. Four (4) to twelve (12) engineers and/or engineering technicians are anticipated to be required during the 2005 & 2006 construction seasons. Typical assignments may include general construction inspection and documentation, including PCC & bituminous concrete paving operations, drainage, patching, bridge structures, bridge painting and providing general assistance as a member of a field crew. Survey/layout services may be required. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project may be in either English or metric units.

Quality Assurance (QA) oversight and Contractor's Quality Control (QC) by the same Consultant, or one of their Sub-consultants, on the same project or on material coming from the same plant are prohibited.

The estimated construction cost for this project is $500,000. The Consultant's work includes providing vehicles for personnel use on construction sites and also for traveling between projects, material plants and weigh scales. The Consultant shall also provide their own equipment and cell phones. The duration of time spent at a single location would vary as a funtion of work assignment needs.

The Consultant shall be held responsible for the overall proficiency in the work assigned. The personnel shall have a good working knowledge of Department Specifications for Road and Bridge Construction, the Department Construction Manual and documentation and in inspection procedures. This work must be competed within 12 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The Project Manager.
- The Inspectors.

Firms must be prequalified in the **Special Services (Construction Inspection)** category to be considered for this project.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

5. **Job No. C-91-102-05, Quality Assurance Testing, Various Routes, Various Counties, Region 1/District One.**

The **Complexity Factor** for this project is **0.003**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 20, 2005** at **10:00 A.M.** at the District One Office in **Schaumburg.**

Phase III engineering services are required to perform the quality assurance responsibilities of hot-mix asphalt (HMA) and/or Portland cement concrete (PCC) construction. The project includes Complete Quality Assurance Testing in accordance with the Standard Specifications for Road and Bridge Construction and any appropriate contract special provisions and plan notes or details. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this contract will be in metric units.

Quality Assurance (QA) oversight and Contractor's Quality Control (QC) by the same Consultant, or one of their Sub-consultants, on the same project or on material coming from the same plant are prohibited.

The Consultant's work may include plant and on-site inspections, sampling and material testing. The Consultant will carry out quality assurance duties as defined in the construction contract and the Consultant agreement. The Consultant will maintain records and submit documentation of all QC and QA activities required by the construction contract. This work must be completed within 12 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The Liaison Engineer who will assume duties as Project Manager for all aspects of the work (must be an Illinois Licensed Professional Engineer).
- The person(s) who will be in charge of QA Lab and Field Testing.
- QC/QA Level 1 and Level II (HMA and PCC) Testing Technicians.
- The Materials QA Technician.

Firms must be prequalified in the **Special Services (Quality Assurance)** category to be considered for this project.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

6. **Job No. D-91-104-05, Various Land Surveys, Various Routes, Various Counties, Region 1 District One.**

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 15, 2005** at **10:30 A.M.** at the District One Office in **Schaumburg.**

Phase II engineering services are required for land surveying services under a blanket agreement for performing miscellaneous land surveys throughout District One. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project may be in either English or metric units.

The department will furnish the Consultant with alignment data, title reports, existing right-of-way plats and proposed right-of-way requirements as each work order is negotiated.

The Consultant's work includes field and office resources to prepare statutory plats of highway, legal descriptions and field staking of the same. They must also have a QA/QC plan to review internal work as well as assigned IDOT projects. This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will be in charge of the surveying (must be an Illinois Licensed Professional Surveyor),

Firms must be prequalified in the **Special Services (Land Surveys)** category to be considered for this project.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

7. **Job No. C-91-091-05, Construction Inspection, Various Routes, Various Counties, Region 1/District One.**

This project requires 20% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 14, 2005** at **2:00 P.M.** at the District One Office in **Schaumburg.**

Phase III engineering services are required to assist Department resident engineers/technicians on various construction projects throughout District One. Four (4) to twelve (12) engineers and/or engineering technicians are anticipated to be required during the 2005 and 2006 construction seasons. Typical assignments may include general construction inspection and documentation, including PCC & bituminous concrete paving operations, drainage, patching, bridge structures, bridge painting and providing general assistance as a member of a field crew. Survey/layout services may also be required. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project may be in either English or metric units.

The department will furnish the Consultant with Plans and Specifications.

The Consultant's work includes providing vehicles for personnel use on construction sites and also for traveling between projects, material plants and weigh scales. The Consultant shall also provide their own equipment and cell phones. The duration of time spent at a single location would vary as a funtion of work assignment needs.

The Consultant shall be held responsible for the overall proficiency in the work assigned. The personnel shall have a good working knowledge of Department Specifications for Road and Bridge Construction, the Department Construction Manual and documentation and in inspection procedures. This work must be completed within 12 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- Project Manager.
- Inspectors.

Firms must be prequalified in the **Special Services (Construction Inspection)** category to be considered for this project:

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

8. **Job No. D-91-116-05, Traffic Signal Coordination and Timing (SCAT), Various Routes, Various Counties, Region 1/District One.**

The **Complexity Factor** for this project is **0.003**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **Tuesday, April 19, 2005** at **9:00 A.M.** at the District One Office in **Schaumburg.**

Phase II engineering services are required for developing traffic signal coordination and timing for various systems located throughout District One. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project will be in English units.

The department will furnish the Consultant with manuals, plans, and/or other available information.

The Consultant's work may include accomplishment of one or more of the following tasks per Work Order for each selected location:

- After a Work Order has been assigned, the Consultant shall have two (2) weeks to implement a functional interim Time-of-Day operation program.
- Data Collection - Field collection of traffic counts, turning movements, signal phasings, signal timings, equipment inventory, and other data needed to quantify existing operating conditions and determine signal optimization alternatives.
- Data Analysis - Appropriate computer models, such as SIGNAL, Transyt 7F, Passer II, and Synchro will be run on the database for each of the selected locations. Recommendations for optimal signal operation plans will be generated utilizing the existing signal equipment and also equipment with minor recommended enhancements using the existing signal phasing and recommendations for improving existing signal phasing. Engineering judgement will be used to select the final plan to be recommended for implementation.
- Implementation - The approved Time-of-Day optimization plan will be placed in operation and any necessary fine-tuning adjustments will be made. The Traffic Responsive Program shall then be implemented and fine-tuned.
- Evaluation - A study of the effectiveness of the optimization plan will be conducted. Benefits will be estimated in terms of travel delay reductions, fuel savings, and reduction of carbon monoxide emissions. Recommendations for further enhancements to the optimization plan and/or equipment modifications may be requested for locations where the operation is still unsatisfactory.

This contract must be completed by June, 2008.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work necessary to prepare traffic signal coordination and timing optimization plans.

- The person who has the necessary experience with traffic signal equipment and who will recommend equipment enhancements, implementation of the optimization plans, and recommend any fine-tuning adjustments.

- The person who conducts the evaluation of the optimization plans.

- The person(s) who is(are) responsible for establishing parameters for traffic adjusted operation of closed-loop signal systems, the methodology used in establishing traffic adjusted operation, and a listing of prior traffic adjusted programs recently implemented by the individual(s). The individual(s) must demonstrate through past optimization the ability to set-up a closed-loop traffic responsive system using both volume and occupancy settings. The individual(s) must demonstrate recent District One experience in the development of traffic signal coordination and timing, utilizing the District's standard traffic controllers – Eagle and Econolite.

Firms must be prequalified in the **Special Studies [Signal Coordination & Timing (SCAT)]** category to be considered for this project. Firms must also furnish a list of projects they have completed involving traffic signal coordination and timing.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

9. **Job No. D-92-044-02, IL 92 (Centennial Expressway), Rock Island County, Region 2, District Two.**

This project requires 12.00% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 20, 2005** at **10:00 A.M.** at the District Two Office in **Dixon.**

Phase II engineering services are required for the preparation of contract plans and the associated material for the total replacement of four structures and the bridge deck replacement of one structure all located within Rock Island County. These structures are all on IL 92 (Centennial Expressway) located in or near Rock Island. The scope of the projects may consist of preparation of contract plans, preparation of type, size and location (TS&L), structure plans, roadway plans, and any other related work to complete the final plans, special provisions and estimates. All work for this project will be in English units.

The following structures are included in this project:

- 081-0062 – IL 92 (Centennial Expressway) over 7th Avenue – removal and replacement.
- 081-0063 - IL 92 (Centennial Expressway) over 18th Avenue - removal and replacement.
- 081-0064 – IL 92 (Centennial Expressway) over IAIS Railroad – removal and replacement pending approval of the addendum to the Bridge Condition Report.
- 081-0065 & 0066 IL 92 (Centennial Expressway) over 31st Avenue - removal and replacement.

The department will furnish the Consultant with available as built plans, microfilm, structure ratings, survey benchmark information, a copy of the Phase I design report, approved Bridge Condition Reports, and other pertinent information to complete the assigned work.

The estimated construction cost for this project is $6,000,000. The Consultant's work includes basic data collection, field surveys, preparation of type, size and location drawings and all other work necessary to prepare contract plans and related documents for the five structures.

Phase II will be completed within 12 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of the Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway: Advanced Typical)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

10. Job No. P-92-052-04 & P-92-061-99, IL 82, Henry County, Region 2/District Two.

This project requires 12.00% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 19, 2005** at **10:00 A.M.** at the District Two Office in **Dixon.**

Phase I and II engineering services are required for the preparation of two Project Reports (anticipated to be Categorical Exclusions). The first Project Report is for the removal and replacement of a structure that carries IL 82 over stream, approximately 3 miles south of IL 92. The second Project Report is for the removal and replacement of two structures that carry IL 82 over a tributary to Spring Creek approximately 1.7 miles north of IL 81 and over a tributary to Spring Creek approximately 3.4 miles north of IL 81. All work for these projects will be in English units.

The following structures are anticipated to be removed and replaced:

- S.N. 037-2003 – IL 82 over a stream, 3 miles south of IL 92
- S.N. 037-0091 – IL 82 over Tributary to Spring Creek, 1.7 miles north of IL 81
- S.N. 037-0106 – IL 82 over Tributary to Spring Creek, 3.4 miles north of IL 81

The department will furnish the Consultant with old plans, accident information, structure ratings, survey benchmark information, sample project reports and other pertinent information to complete the assigned work.

The estimated construction cost for this project is $1,650,000. The Consultant's work includes basic data collection, fields surveys, hydraulic analyses, preparation of structure reports, preparation of type, size and location drawings and all other work necessary to prepare the Project Reports and Phase II final contract plans and documents. The Consultant will also obtain survey data to prepare plats and legal descriptions for additional right of way if required.

The Phase I work must be completed within 15 months after authorization to proceed. Phase II will be negotiated for the preparation of preliminary and final contract plans, special provisions and estimates near the completion of Phase I. Phase II will be completed within 12 months after authorization to proceed with Phase II.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of the Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway: Typical)
Hydraulic Reports (Waterways: Typical)
Location/Design Studies (Rehabilitation)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

11. **Job No. P-92-057-05, Land and Route Surveys, Various Routes, Various Counties, Region 2/District Two.**

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 21, 2005** at **10:00 A.M.** at the District Two Office in **Dixon.**

Phase I engineering services are required to furnish land surveying, field office assistance for surveys to establish or re-establish section corners, reference said corners to centerlines, preparation of cover sheets, Right-of-Way Plats, Easement Plats, Premise Plats, legal descriptions, Monument Record Plats (copies of recorded Monument Record Plats to be furnished by the Consultant), section Corner Plat of Survey, and staking plans for projects up to 20 parcels or more. All work for these projects may be in English or metric units.

In addition, the Consultant selected is anticipated to perform various route survey functions, including horizontal and vertical for aerial mapping projects and topographic surveys. These surveys will be conducted in accordance with the District Two survey contract. Work orders under the blanket agreement will be negotiated and authorized by the department on as as-needed basis.

The Consultant selected will perform surveys throughout District 2. The department will furnish the Consultant with alignment data, Title Reports, Existing Right -of-Way Plats, and Proposed Right-of-Way requirements as each Work Order is negotiated.

The Consultant may be required to contact local land surveyors for their input and may be expected to obtain historic survey reference data. This work must be completed within 24 months after authorization to proceed.

Firms must be prequalified in the following categories to be considered for this project:

Special Services (Land Surveys)
Special Services (Route Surveys)

Statements of Interest must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

12. **Job No. P-93-016-05, Bridge Condition Reports, Hydraulic Reports, and Type, Size and Location Drawings, Various Routes, Various Counties, Region2/District Three.**

The **Complexity Factor** for this project is **0.**

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a negotiation meeting on **April 14, 2005** at **10:00 A.M.** at the District Three Office in **Ottawa.**

Phase I engineering services are required for Bridge Condition Reports, field surveys (including route and hydraulic stream surveys), Hydraulic Reports and, if needed, Type, Size and Location drawings and structure borings for various structures throughout District Three. Work orders under the blanket agreement will be negotiated and authorized on an as-needed basis. All work for these projects may be in English or metric units.

The scope of work includes data collection and may include ground penetration radar and/or infrared bridge deck delamination surveys and deck cores, ground and stream surveys, cost comparisons, traffic analyses and all work necessary to complete the Bridge Condition Reports, Hydraulic Reports and, if needed, type, size and location (TS&L) drawings and structure borings.

The department will furnish the Consultant with traffic data, existing bridge rating information, unit prices for cost comparisons and available microfilm prints of as-built plans.

The completion date for this contract will be 18 months after authorization to proceed. The agreement with the Consultant will include an option for renewal by the department for an additional 18 months.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will assume the duties of Project Engineer, that individual-in-charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person(s) who will perform the QC/QA review work of all milestone submittals (must be an Illinois Licensed Professional Engineer for roadway work and an Illinois Licensed Structural Engineer for structure work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Location/Design Reports (Rehabilitation)
Structures (Highway Bridges: Typical)
Special Studies (Location Drainage)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

13. Job No. P-93-017-05, Land Surveys and Preparation and Review of Right-of-Way Plans, Various Routes, Various Counties, Region 2/District Three.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a scope of services meeting on **April 14, 2005** at **2:00 P.M.** at the District Three Office in **Ottawa.**

Phase I and II engineering services are required for route surveys, land acquisition surveys, the preparation and review of preliminary and final right-of-way plans, premise plats, and legal property descriptions related to land acquisition activities for various projects along various routes in various counties in District Three. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project will be in English units.

The Consultant's work is anticipated to include research, land surveys, route surveys, premise plats, legal descriptions, monument records and all investigation and documentation required to prepare preliminary and final right-of-way plans. The Consultant's work may also include reviewing right-of-way documents prepared by others, which will involve reviewing title commitment descriptions, existing right-of-way location, proposed right-of-way location, legal property description content and closures and computation of areas in existing right-of-way, proposed right-of-way, easements and total holding. A general overall review of the right-of-way documents will be completed for quality, content and format using guidelines furnished by the department.

The department will furnish the Consultant with available construction plans, available aerial photography, existing right-of-way plats and plans, proposed right-of-way requirements, title commitments and available subdivision plats. The Consultant will use this information to prepare and review preliminary and final right-of-way plans, premise plats and legal property descriptions depicting the proposed additional right-of-way needed for various projects in District Three.

The completion date for this contract will be 18 months after authorization to proceed. The agreement with the Consultant will include an option for renewal by the department for an additional 18 months.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Land Surveyor).

Firms must be prequalified in the following categories to be considered for this project:

Special Services (Land Surveys)
Special Services (Route Surveys)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

14. **<u>Job No. D-93-021-05, I-80/IL 178 Interchange at Utica, LaSalle County, Region 2/District Three</u>.**

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a negotiation meeting on **April 14, 2005** at **10:00 A.M.** at the District Three Office in **Ottawa**.

Phase II engineering services are required for the preparation of contract plans, special provisions and estimates for reconstruction of the existing interchange on I-80 at IL 178 at Utica and bridge replacement. All work for this project will be in English units.

The following structure is included in this project, S.N 050-0084 (FAU 6120 over I-80)

The Consultant's work includes preliminary and final roadway and structure plans, field surveys, special provisions, estimates and any other work necessary to compete the project.

The department will furnish the Consultant with the Project Report, Access Justification Report, drainage report, hydraulic report, type, size and location (TS&L) drawings, foundation borings, surveys, any available as-built plans, microfilm plans, field notes, traffic data, accident statistics, agency coordination, existing right-of-way plans, aerial photography, and any other available information.

The estimated construction cost for this project is $10,000,000. The completion date for this contract will be 18 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

    - The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Freeways)
Structures (Highway Bridges: Typical)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

15. Job No. D-93-051-04, FAP 798 (IL 115), Ford County; and Job No. D-93-022-05, FAP 840 (US 45/52), Kankakee County, Region 2/District Three

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a negotiation meeting on **April 15, 2005** at **10:00 A.M.** at the District Three Office in **Ottawa.**

Phase II engineering services are required for the preparation of two separate sets of contract plans, special provisions and estimates for structure replacement on IL 115 in Ford county and US 45/52 in Kankakee. All work for these projects will be in English units.

The following structures are included in this project:

- Removal and replacement of the existing structure (S.N. 027-0040) on IL 115 over a ditch, approximately 3.4 miles south of US 24. The estimated construction cost is $350,000.

- Removal and replacement of the existing structure (S.N. 046-0098) on US 45/52 over a stream, approximately 1.6 miles south of I-57. The estimated construction cost is $300,000.

The Consultant's work is anticipated to include field surveys, plans, special provisions and estimates for approach roadway and structures. The department will furnish the Consultant with Project Reports, Hydraulic Reports, foundation borings, type, size and location (TS&L) drawings and any available existing plans.

The completion date for this contract will be 12 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer or an Illinois Licensed Structural Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway Bridges: Simple)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

16. <u>Job No. D-93-023-05, FAP 627 (IL 71), & Job No. D-93-050-04 FAP 311, (IL 71), LaSalle County, Region 2/District Three</u>

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a negotiation meeting on **April 15, 2005** at **2:00 P.M.** at the District Three Office in **Ottawa.**

Phase II engineering services are required for the preparation of two separate sets of contract plans, special provisions and estimates for structure removal and replacement on IL 71. All work for these projects will be in English units.

The following structures are included in this project:

- Removal and replacement of the existing structure (S.N. 050-0030) on IL 71 over a stream, approximately 5.9 miles east of IL 178. The estimated construction cost is $400,000.

- Removal and replacement of the existing structure (S.N. 050-0067) on IL 71 known as the Rutland School Bridge, approximately 4.5 miles north of US 6 north of Ottawa. The estimated construction cost is $325,000.

The Consultant's work includes plans, special provisions and estimates for approach roadway and structures. The department will furnish the Consultant with Project Reports, Hydraulic Reports, survey information, approved Type, Size and Location (TS&L) drawings, foundation borings and any available existing plans.

The completion date for this contract will be 12 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer or an Illinois Licensed Structural Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway Bridges: Typical)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

17. <u>Job No. P-95-025-04/D-95-048-04, Phase I and/or II Work for Various Projects, Various Counties, Region 3/District Five.</u>

This project requires 25% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 15, 2005** at **10:00 A.M.** at the District Five Office in **Paris.**

Phase I and/or II engineering services are required for various projects in District Five. Work Orders under the blanket agreement will be negotiated and authorized by the Department on an as-needed basis. All work for this project may be in either English or metric units.

The Consultant's Phase I work, if required, may consist of conducting route surveys, subsurface utility engineering, hydraulic analysis, geometric studies, and preparing project reports (Categorical Exclusion reports only). This work may include data collection, development of alignment alternatives, cost estimates, traffic management analysis, accident analysis, quantity computations, and other related work items required to produce a project report.

The Consultant's Phase II work, if required, may consist of conducting route surveys, land surveys, right of way plat and plan preparation, writing legal descriptions, staking right of way, hydraulic analysis, geometric studies, roadway plans, TS&L drawings; prefinal structure plans; final structure plans; and any other related work required to complete final plans, special provisions, and estimates as necessary.

The department will furnish the Consultant with traffic data, bridge condition reports, existing plans, utility coordination, survey data, Microstation files, Geopak files, boring logs, and accident data when available.

It is anticipated that this contract will include approximately 4 to 10 different projects. The Consultant's work may consist of either complete projects or a portion of the total engineering required for a certain project. The estimated construction cost for each project will range from approximately $10,000 to $5,000,000. This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibits A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway: Typical)
Location/Design Studies (Rehabilitation)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

18. **Job No. D-96-511-05; Phase I and/or II for Various Projects, Various Counties, Region 4, District Six**

This project requires 15% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a Scope of Services meeting on **April 15, 2005, at 10:00 A.M.** in the District Six Office Conference Room in **Springfield**.

Phase I and/or II engineering services are required for various projects in District Six. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project may be in English or metric units.

The Phase I work, if required, may consist of conducting route surveys, hydraulic surveys, hydraulic analysis, geometric studies, preparing bridge condition reports, and preparing project reports (categorical exclusion projects only). This work will include data collection, development of alignment alternatives, cost estimates, traffic management analysis, accident analysis, bridge condition reports, TS&L, structure plans, and other related work and exhibits necessary to produce the Project Report, as necessary.

The Phase II work, if required, may consist of conducting route surveys, land surveys, hydraulic analysis, geometric studies, preparation of TS&L structure plans, roadway plans, necessary right-of-way documents, and any other related work to complete final plans, specifications, and estimates, as necessary.

The various proposed projects may consist of simple patching and resurfacing, bridge repair, bridge rehabilitation, bridge replacement, widening and resurfacing, and/or new roadway projects.

The Department will furnish the Consultant with any available as-built plans, microfilm plans, field notes, traffic data, accident statistics, agency coordination, existing right-of-way plans, aerial photos, boring logs, and any other available information.

It is anticipated that this contract will include approximately 3-15 different projects The Consultant's work may consist of either complete projects or a portion of the total engineering required for a certain project. The estimated construction costs of each project will range from $100,000 to $2,000,000. This work must be completed within 18 months after authorization to proceed. The Department has the option to renew the contract for an additional 18 months.

Key personnel listed on **Exhibit A** for this contract must include:

- The person who will assume the duties of Project Manager for all aspects of the work (must be an Illinois Licensed Professional Engineer).

- The person(s) who will perform the duties of Project Engineer who will be directly involved and responsible in the development of the reports and/or plans (must be an Illinois Licensed Professional Engineer).

- The person who will be in charge of route surveys and/or land surveys (must be an Illinois Licensed Surveyor).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway: Typical)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

19. <u>Job No. P-97-007-05, Phase I and/or II for Various Projects, Various Counties, Region 4, District Seven.</u>

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 18, 2005,** at **10:00 A.M.** at the District Seven Office in **Effingham.**

Phase I and/or II engineering services are required for various projects in District Seven. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project will be in English units and all NEPA documents must be in dual (English and metric) units.

The Phase I work, if required, may consist of conducting route surveys, land surveys, hydraulic surveys, hydraulic analysis, geometric studies, environmental studies, preparing Project Reports, and preparing and/or reviewing geotechnical reports including soils, pavement and foundation recommendations. This work may include data collection, development of alignment alternatives, cost estimates, traffic management analysis, accident analysis, bridge condition reports, preparing and/or reviewing hydraulic reports, type, size and location drawings, and other related work and exhibits necessary to produce the Project Reports.

The Phase II work, if required, may consist of conducting route surveys, land surveys, hydraulic analysis, geometric studies, preparation of type, size and location drawings, structure plans, roadway plans, and any other related work to complete final plans, specifications and estimates as necessary.

The department will furnish the Consultant with available as-built plans, microfilm, field notes, existing right-of-way plans, aerial photos, boring logs, existing Bridge Condition & Hydraulic Reports, and other information necessary for the Consultant to accomplish the work.

The various proposed projects may consist of simple patching and resurfacing, bridge repair, bridge rehabilitation, new bridge design, urban projects with storm sewer, widening and resurfacing and/or new roadway projects which may include preparation of plats & plans for right-of-way acquisition.

The estimated construction cost for these projects may be $500,000 to $2,000,000. The Consultant's work includes either complete projects or a portion of the total engineering work on a certain project. This work must be completed within 30 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

Firms must be prequalified in the following categories to be considered for this project:

Highways (Roads & Streets)
Structures (Highway: Typical)
Location/Design Studies (Rehabilitation)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

20. <u>Job No. P-97-004-02, I-57/64 from North Tri-Level to South Tri-Level in Mt. Vernon, Jefferson County, Region 4/District Seven.</u>

This project requires 25% DBE participation.

The **Complexity Factor** for this project is **0.003**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 15, 2005,** at **10 A.M.** at the District Seven Office in **Effingham**.

Phase I engineering services are required to perform all work associated with the preparation of a Location/Design Report for the rehabilitation of I-57/64 to upgrade the existing four lanes of interstate to a six lane facility for approximately 4.2 miles, from the North Tri-level to the South Tri-level in Mt. Vernon. The proposed improvement is anticipated to include alignment and profile corrections, shoulder and ditch reconstruction, culvert replacements and/or extensions, drainage studies, ramp reconstruction, bridge rehabilitation and any other work necessary to complete the Design Report. All work for this project will be in English units and all NEPA documents must be in dual (English and metric) units.

Phase I engineering services may include basic data collection; accident analysis, traffic management analysis; geometric studies; drainage studies; associated environmental technical report preparation; pavement design analyses; cost estimates, and any other work necessary to prepare the Design Report.

The following structures are to be evaluated in this project:

- S.N. 041-0060; S.N. 041-0061
- S.N. 041-0012; S.N. 041-0013
- S.N. 014-2015; S.N. 041-0025
- S.N. 041-0007; S.N. 041-0059

The department will furnish the Consultant with the route survey, existing plans, aerial surveys, accident data, bridge ratings, and traffic data.

The estimated construction cost for this project is $30,000,000. This contract must be completed by January 1, 2007.

Key personnel listed on **Exhibits A & B** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional Engineer).

Firms must be prequalified in the following categories to be considered for this project:

Structures (Highway: Advanced Typical)
Location/Design Studies (Reconstruction/Major Rehabilitation)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

21. **Job No. D-98-047-05, Subsurface Utility Engineering, Various Routes, Various Counties, Region 5/District Eight.**

This project requires 12.00% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a scope of services meeting on **April 15, 2005,** at **10:00 A.M.** at the District Eight Office in **Collinsville**.

Engineering services for subsurface utility engineering are required on various projects throughout District Eight for use primarily on Phase I and II projects. There may be projects during Phase III. Work orders under a blanket agreement will be negotiated and authorized by the department on an as-needed basis. The Consultant shall respond within 24 hours to the District after receiving each work order assignment to discuss the scope of work, negotiate hours of work, equipment required, and direct cost. After the department gives the Consultant authorization to proceed, the Consultant shall commence work within 10 calendar days. All work for these projects may be in either English or metric units.

This project includes providing the department with existing utility location information in written documents and electronic CADD files for the various projects assigned. This information shall be obtained by researching all utility companies' records which have facilities in the area and by performing actual field surveys to verify and map at the appropriate quality level all existing utilities on the assigned project. Field surveys are to be performed to horizontally locate above ground utility features, including but not limited to poles, manholes, valve boxes, meters, utility designation markings, etc. The Consultant shall also determine the existence and approximate horizontal position of underground utilities through the application of appropriate surface geophysical methods (QL B data). The exact horizontal and vertical locations of underground utilities shall also be determined by actually physically locating them (exposing and surveying) at designated spots with the use of special boring/excavating equipment insured not to damage existing utilities (QL A data).

The department will furnish the Consultant with any available as-built plans and/or microfilm plans, survey field notes, alignment data, cross ties, design CADD files, benchmarks and any other available data.

The completion date for this contract will be 24 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be experienced in managing multiple subsurface utility engineering projects in urban environments).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work required for surveying (must be experienced in survey of utility features and an Illinois Licensed Land Surveyor).

- The person(s) who will perform the QC/QA review work of all milestone submittals (must be an Illinois Licensed Professional Engineer).

Firm must be prequalified in the **Special Services (Subsurface Utility Engineering)** category to be considered for this project.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

22. <u>Job No. D-98-046-05, Phase I and/or II work for Various Projects, Various Counties, Region 5/District Eight.</u>

This project requires 12% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 15, 2005** at **1:30 P.M.** at the District Eight Office in **Collinsville.**

Phase I and/or II engineering services are required for various projects in District Eight. Work orders under the blanket agreement will be negotiated and authorized by the Department on an as-needed basis. All work for this project will be in English units.

The Phase I work, if required, may consist of conducting route surveys, hydraulic surveys, hydraulic analyses, geometric studies, preparing TS&L plans, preparing Bridge Condition Reports and preparing Project Reports (Categorical Exclusion projects only). This work will include data collection, cost estimates, traffic management analysis, accident analysis, infrared testing of bridge decks, Bridge Condition Reports and other related work and exhibits necessary to produce the Project Report, as necessary.

The Phase II work, if required, may consist of conducting route surveys, hydraulic analyses, geometric studies, roadway plans, and any other related work to complete final plans, specifications and estimates, as necessary.

The various proposed projects may consist of bridge repair, bridge rehabilitation, and bridge replacement and also resurfacing type projects, including interstate resurfacing.

The department will furnish the Consultant with any available as-built plans, microfilm plans, field notes, traffic data, accident statistics, agency coordination, existing right-of-way plans, aerial photos, boring logs and any other available information.

The Consultant's work may consist of either complete projects or a portion of the total engineering required for a certain project.

This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibits A and B** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform/supervise the work in the area of drainage calculations and preparation of the Hydraulic Analyses (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

- The person who will be in charge of route surveys (must be an Illinois Licensed Professional Land Surveyor)

Firms must be prequalified in the following categories to be considered for this project:

Highways (Freeways)
Structures (Highway: Typical)
Location/Design Studies (Reconstruction/Major Rehabilitation)
Special Services (Route Surveys)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

23. <u>Job No. D-98-035-05, Phase I and/or II work for Various Projects, Various Counties, Region 5/District Eight.</u>

This project requires 12% DBE participation.

The **Complexity Factor** for this project is **0.003**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 15, 2005** at **10:00 A.M.** at the District Eight Office in **Collinsville.**

Phase I and/or II engineering services are required for various projects in District Eight. Work orders under the blanket agreement will be negotiated and authorized by the Department on an as-needed basis. All work for this project will be in English units.

The Phase I work, if required, may consist of conducting route surveys, hydraulic surveys, hydraulic analyses, geometric studies, preparing TS&L plans, preparing Bridge Condition Reports and preparing Project Reports (Categorical Exclusion projects only). This work will include data collection, cost estimates, traffic management analysis, accident analysis, Bridge Condition Report and other related work and exhibits necessary to produce the Project Report, as necessary.

The Phase II work, if required, may consist of conducting route surveys, hydraulic analyses, geometric studies, roadway plans, and any other related work to complete final plans, specifications and estimates, as necessary.

The various proposed projects may consist of bridge repair, bridge rehabilitation, and bridge replacement and also resurfacing type projects.

The department will furnish the Consultant with any available as-built plans, microfilm plans, field notes, traffic data, accident statistics, agency coordination, existing right-of-way plans, aerial photos, boring logs and other information deemed applicable to the Consultant's work.

The Consultant's work may consist of either complete projects or a portion of the total engineering required for a certain project.

This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibits A and B** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform/supervise the work in the area of drainage calculations and preparation of the Hydraulic Analyses (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

- The person who will be in charge of route surveys (must be an Illinois Licensed Professional Land Surveyor).

Firms must be prequalified in the following categories to be considered for this project:

- **Highways (Freeways)**
- **Structures (Highway: Advanced Typical)**
- **Location/Design Studies (Reconstruction/Major Rehabilitation)**
- **Special Services (Route Surveys)**

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

24. Job No. C-98-055-05, Construction Inspection for Various Projects, Various Counties, Region 5/District Eight.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 14, 2005** at **10:00 A.M.** at the District Eight Office in **Collinsville.**

Phase III engineering services are required to assist department resident engineers/technicians on various projects throughout District 8. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project may be in either English or metric units.

The department will furnish the Consultant with the construction plans and specifications.

The department will provide a Resident Engineer to direct the Contractor and to complete pay estimates and change orders. The Resident Engineer will direct/coordinate the activities of the Consultant staff. The Consultant will furnish a liaison Resident Engineer to work directly with the IDOT Resident Engineer and provide an adequate staff to perform all of the engineering services required for these projects. The Consultant's work force shall be adequate to allow completion of these projects in a timely manner.

The Consultant may be required to perform on-site inspections and provide construction layout. The Consultant may also be required to maintain records and documentation and perform any other duties that would require the services of an engineer to complete this project in a timely manner and in accordance with the Department's Standard Specifications for Road and Bridge Construction.

The Consultant will provide tools of the trade. The Consultant may be required to furnish a laptop computer equal to the latest type used by District Eight for each project. Illinois Construction Records System (ICORS) software will be provided for downloading on the Consultant's computer.

Quality Assurance (QA) oversight and Contractor's Quality Control (QC) by the same Consultant or one of his subconsultants on the same project or on material coming from the same plant, are prohibited.

The Consultant must complete and submit final measurements, calculations, and contract record documentation to the Department no later than six (6) weeks after completion of the project. The various projects are scheduled for construction during the 2005 and 2006 construction seasons. This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The Liaison Engineer.

- The Materials Coordinator and concrete/bituminous proportioning technicians. (Include specific detail of aggregate source certification, bituminous and/or PCC QC/QA training, and details of past experience with materials inspection).

- The Document Technician. (The person actively performing the documentation on the project must possess a current IDOT Construction Documentation certificate. Include the Documentation Certificate Number for IDOT Class S-14, Documentation Contract Quantities.)

- The Materials QA Technician.

- Technicians

- Nuclear Density Inspectors. (Include evidence of appropriate QC/QA density training).

- The Survey Chief.

Firms must be prequalified in **Special Services (Construction Inspection)** to be considered for this project.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

25. <u>Job No. P-98-045-05, Phase I and/or II work for Various Projects, Various Counties, Region 5/District Eight.</u>

This project requires 12% DBE participation.

The **Complexity Factor** for this project is **0**.

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 14, 2005** at **10:00 A.M.** at the District Eight Office in **Collinsville.**

Phase I and/or II engineering services are required for various projects in District Eight. Work orders under the blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project will be in English units.

The Phase I work, if required, may consist of conducting route surveys, hydraulic surveys, hydraulic analyses and/or preparation of a location drainage study, geometric studies, intersection design studies, preparing TS&L plans, preparing Bridge Condition Reports, preparing Design Reports, and environmental analyses and reports necessary for a Simple EA or minor studies and documentation in accordance with Environmental Class of Action Determination procedures. This work may include data collection, cost estimates, traffic management analysis, accident analysis, and other related work and exhibits necessary to produce the Design Report and environmental documentation, as necessary.

The Phase II work, if required, may consist of conducting route surveys, land surveys, hydraulic analyses, geometric studies, roadway plans, and any other related work to complete final plans, specifications and estimates, as necessary.

The various proposed projects may consist of bridge repair, bridge rehabilitation, and bridge replacement and also widening and resurfacing type projects.

The Department will furnish the Consultant with any available as-built plans, microfilm plans, field notes, traffic data, accident statistics, agency coordination, existing right-of-way plans, aerial photos, boring logs and other information deemed applicable to the Consultant's work.

The Consultant's work may consist of either complete projects or a portion of the total engineering required for a certain project.

This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibits A and B** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The Environmental Lead, who will be responsible for the day-to-day management of the environmental work effort, and persons responsible for all environmental disciplines

including air quality, water quality, traffic noise, socio-economics and ecology. Environmental staffing on **Exhibit B** must match the staffing presented in the firm's most recent Statement of Experience and Financial Condition.

- The person who will perform/supervise the work in the area of drainage calculations and preparation of the Hydraulic Analyses (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work for all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

- The person who will be in charge of route surveys (must be an Illinois Licensed Surveyor)

Firms must be prequalified in the following categories to be considered for this project:

Location/Design Studies (Reconstruction/Major Rehabilitation)
Highways (Freeways)
Special Studies (Location Drainage)

The prime Consultant must be prequalified in **Environmental Reports (Simple Environmental Assessment)** and must perform all of the environmental work using staff that has been presented in your most recently approved Statement of Experience and Financial Condition or your firm may use a single subconsulting firm that is prequalified in **Environmental Reports (Simple Environmental Assessment)** to perform all of the environmental work. The subconsultant's staff must be the same as presented in their most recently approved Statement of Experience and Financial Condition.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

26. **Job No. P-98-002-05, Land Surveying, Various Routes, Various Counties, Region 5, District Eight.**

The **Complexity Factor** for this project is **0.**

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a negotiation meeting on **April 14, 2005** at **10:00 A.M.** at the District Eight Office in **Collinsville**.

Professional land surveying services are required under a blanket agreement for performing miscellaneous land and route surveys in District 8. The Consultant's work may include land surveying to reference the highway centerline to public land lines, land surveying to locate boundaries, record research, preparation and recording of monument records, preparation of legal descriptions, preparation of Freeway Orders, preparation of various plats and maps including: Statutory Plat of Highways, existing right of way survey plats or maps, centerline plats, corridor protection maps and excess right of way parcel plats. The Consultant's work may include right of way staking. The Consultant's work may also include performing horizontal and vertical control surveys and topographic surveys for highway design projects. Work orders under a blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project may be in either English or metric units.

The department will provide alignment data, title commitments, existing right of way information and proposed right of way requirements for each project.

It is anticipated that this contract will include approximately 15 to 25 such surveys. This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will be in charge of the surveying (must be an Illinois Licensed Professional Land Surveyor).

Firms must be prequalified in the following categories to be considered for this project:

Special Services (Land Survey)
Special Service (Route Survey)

Statements of interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

27. **Job No. P-98-003-05, Land Surveying, Various Routes, Various Counties, Region 5, District Eight.**

The **Complexity Factor** for this project is **0.**

The Consultant who is selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a negotiation meeting on **April 14, 2005** at **2:00 P.M.** at the District Eight Office in **Collinsville**.

Professional land surveying services are required under a blanket agreement for performing miscellaneous land surveys and route surveys in District 8. The Consultant's work may include land surveying to reference the highway centerline to public land lines, land surveying to locate boundaries, record research, preparation and recording of monument records, preparation of legal descriptions, preparation of Freeway Orders, preparation of various plats and maps including: Statutory Plat of Highways, existing right of way survey plats or maps, centerline plats, corridor protection maps, and excess right of way parcel plats. The Consultant's work may include right of way staking. The Consultant's work may also include performing horizontal and vertical control surveys and topographic surveys for highway design projects. Work orders under a blanket agreement will be negotiated and authorized by the department on an as-needed basis. All work for this project may be in either English or metric units.

The department will provide alignment data, title commitments, existing right of way information and proposed right of way requirements for each project.

It is anticipated that this contract will include approximately 15 to 25 such surveys. This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will be in charge of the surveying (must be an Illinois Licensed Professional Land Surveyor).

Firms must be prequalified in the following categories to be considered for this project:

Special Services (Land Survey)
Special Services (Route Survey)

Statements of interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

28. Job No. C-30-004-05, Various Routes, Various Counties, Structural Steel Shop Fabrication Inspection, Statewide.

The **Complexity Factor** for this project is **0**.

The Consultant selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend a negotiation meeting on **April 14, 2005** at **10:30 A.M.** at the Central Bureau of Bridges and Structures office in **Springfield.**

Attachment A, showing our Inspection Requirements, is enclosed for your consideration. If you are interested in providing these services for IDOT, please provide the following information: 1) your firm's previous experience with this type of work and IDOT specifications; 2) names of key personnel along with one page resumes indicating technical and managerial qualifications; 3) availability of inspection personnel and your firm's anticipated workload during the next two years; 4) branch office locations; 5) your firm's calculated burden and overhead rate:

Since the location and duration of projects to be covered by this contract are uncertain, we are providing the following estimated annual requirements:

Inspector Qualifications	Straight Time (Hours)	Overtime (Hours)
CWI and UT Level II (Shop)	100	20
CWI (Shop)	1000	100
Non CWI (Shop)	350	50
UT Level II (Field)	20	0
Inspection Manger (Site Meeting)	10	0

Services will also require an estimated: 120 days of per diem and possibly 10,000 miles of travel.

Each inspector is expected to be a member of the agency's inspection staff. The use of personnel from the local area hired for inspection shall be prohibited unless approved by the department.

The contract will be monitored and administered by the IDOT Bureau of Bridges and Structures. The completion date for this contract will be 12 months after authorization to proceed. The agreement with the Consultant will include an option for renewal by the department for an additional 12 months.

If you have any questions concerning the project, please contact Mr. Jon Edwards in the Bureau of Bridges and Structures at 217/782-3586. Procedural questions regarding Statements of Interest may be directed to Ms. Carrie Kowalski in the IDOT Bureau of Design and Environment's Consultant Unit at 217/782-6916.

Two copies of the Statement of Interest, including resumes of key people, must be received by the Bureau of Design and Environment prior to 4:30 p.m. central time, **February 23, 2005**, to be given consideration.

Send responses to Illinois Department of Transportation, Bureau of Design and Environment, Attn: Ms. Cheryl Cathey, Consultant Unit, Room 330, 2300 South Dirksen Parkway, Springfield, Illinois, 62764.

ATTACHMENT A

INSPECTION REQUIRMENTS

SECTION I - INSPECTORS

Quality Assurance (QA) Inspectors shall be fully-trained employees of the CONSULTANT, experienced in the inspection of materials, workmanship and procedures involved in the work. The use of personnel temporarily hired for inspection shall be prohibited unless approved by the Department. QA Inspectors may not be in any position of self-interest, direct or indirect, with the producers or processors of the work involved. The name and address of each inspector employed in this work shall be filed by the CONSULTANT with the DEPARTMENT, together with a brief summary of qualifications. When more than one inspector is assigned to a project, the CONSULTANT shall designate one as the lead inspector, who will assume the responsibility of coordinating the inspection effort and filing all reports in addition to inspection duties. The CONSULTANT shall not change inspectors on the project without prior notification to the DEPARTMENT. The DEPARTMENT shall have the right to order the removal of any inspector from the DEPARTMENT'S work for failure to perform to the satisfaction of the DEPARTMENT.

1. The inspectors shall personally make all inspections and reports as required for quality assurance (QA) of fabrication on assigned projects. They shall perform special tests, examinations and re-inspections when required by the DEPARTMENT.

2. Each inspector shall be familiar with the approved shop drawings and DEPARTMENT standard specifications pertaining to the fabrication inspected, as well as applicable codes and specifications of the American Welding Society and ASNT.

3. No variations from the approved shop drawings or the Contract specifications and supplements shall be permitted by the inspector, except upon specific instructions by the DEPARTMENT.

5. Each inspector assigned to a project shall be a Certified Welding Inspector (CWI), unless otherwise approved or specified by the Department, and well versed in applicable fabrication, non-destructive testing (including MT and RT interpretation), cleaning and/or shop painting techniques. Non-certified inspectors shall have at least one year of prior, supervised experience with the agency.

6. Inspectors shall be assigned and monitored by an Inspection Manager who is qualified to perform all tasks assigned to supervised inspectors. If the Engineer requests the Inspection Manger personally attend a prefabrication conference or on-site meeting, or perform sophisticated inspection services, the Inspection Manager will be billed at the overtime rate for a CWI & UT II (Shop) plus per diem and/or mileage, based on location and duration.

7. For ongoing projects, shop inspectors will be reimbursed for per diem or daily mileage and travel time from/to their home address, whichever is less. This allows per diem and mileage to be charged only for travel days at the beginning and end of a particular project, for intermittent inspection, or for prolonged periods of inactivity at a shop. Per diem will be paid through weekends and shop holidays if it is less than estimated charges for the inspector to travel home and return to the shop.

8. Field (construction site) QA Inspectors will be reimbursed for per diem, and daily mileage/travel time for up to 40 miles or travel time to/from their home to the field site work, whichever is less.

SECTION II - CONDUCT OF INSPECTORS

QA Inspectors shall perform their duties under the contract in a courteous manner. They shall maintain fair and professional relations with personnel of the shops inspected and direct formal communication to the shop's Quality Control staff or management, as appropriate. QA Inspectors will not perform Quality Control duties for the shop or direct production personnel, except to note hazardous conditions that might result in injury or damage.

SECTION III - SHOP INSPECTION

QA Inspections typically cover steel or aluminum fabrication, but other materials may occasionally be involved.

Any shop error or material deficiency observed which, in the opinion of the inspector, may be cause for rejection shall be reported to the Contractor's QC or production management and the DEPARTMENT. Inspectors shall verify that repairs are made or report inadequate corrections to the DEPARTMENT. Inspections in the shop shall verify: the condition of materials, workmanship, dimensional accuracy, quality of welding, the proper application of heat, accuracy of punching, reaming and assembly, proper torque of bolts, fit of machine finished joints, conformance of cleaning and painting to the contract specifications, etc. QA Inspectors shall identify significant or recurring defects and document the adequacy of the Contractor's corrective actions and Quality Control Plan.

The following list is not all-inclusive, but shows typical inspector activities to verify compliance with contract requirements.

1. General surface inspection as material is processed and exposed to view, noting imperfections. View cut edge of plates for indications of internal defects.

2. Observe thermal cutting and computer numerically controlled (CNC) equipment to determine if it appears to be performing properly.

3. Check the mill identification, sizes of sections and thickness of plates, verifying that approved materials are used, with special attention to the use and location of Fracture Critical Material.

4. Determine that dies and punches are in acceptable condition, of correct size, and used within the limits set by the contract, the manufacturer or industry practice as appropriate.

5. Check that reamed holes are cylindrical, that burrs are removed and no chips or drillings remain between shop contract surfaces.

6. Periodically monitor the installation and tightening of high strength bolts to insure that the selected tightening procedure is properly used. Each day that bolts are to be installed, inspection wrenches shall be calibrated in a device indicating bolt tension prior to testing.

7. Steel templates for reaming or drilling shall have hardened bushings positioned based on the inscribed centerlines used to locate each template, and they shall be properly secured.

8. Bolted splice plates shall be properly fitted and secured prior to reaming or drilling. Parts assembled for drilling or reaming holes to full size shall be aligned and secured after verifying proper hole spacing and edge distances.

9. Techniques used in assembling beams, girders, trusses, rigid frames or arches shall not damage members, and the desired geometry (camber, horizontal curvature, etc.) shall be verified before reaming, unless otherwise approved by the Engineer.

10. Field bolted splices and other reamed assembled (RA) or drilled assembled (DA) elements shall be plainly match-marked, and the match-marking diagrams shall be checked. Erection (piece and match) marks shall be made with low or mini-stress dies in areas of members and splice plates specified on the shop drawings.

11. Check pins, bushings and pin holes for size, location and surface finish. Obtain certification of pin and bushing material and any required heat treatment process.

12. All finished members shall be free of general or localized twists, bends, kinks or other distortions exceeding contract tolerances.

13. All loose pieces are to be bolted or otherwise secured for shipment, and small parts properly cushioned and boxed or otherwise secured against loss and damage in transit.

14. Check for “lefts” or “rights” and for number of parts.

15. Surfaces to be shop primed shall be properly cleaned and surface profile verified prior to painting. Priming must be done within 24 hours of cleaning and prior to any surface rusting.

16. ILDOT approved batches of paint are to be applied in accord with the contract and manufacturer’s product data sheet. Obtain certification of paint batch approval by the Department. Monitor mixing of components, humidity, metal and air temperature and application patterns.

17. All thermal cutting shall be mechanically guided. No hand flame cutting shall be allowed without the approval of the DEPARTMENT. No unauthorized corrections are to be made by flame cutting, and re-entrant cuts must be radiused in accord with contract requirements.

18. Verify QC measurements for center to center of bearings, camber and sweep. Make random checks of stiffener and lateral bracing locations as well as their hole layouts. If errors are found, require more complete dimension checks by QC to define extent of the problem.

19. Check workmanship of welded members in accordance with requirements of applicable welding specifications.

20. Check that splice plates and fills are properly positioned before drilling or reaming. No chips, drillings or sand shall remain between shop bolted components.

21. Mill test reports should be obtained from the contractor's QC or the DEPARTMENT and correlated with the material used in the structure. A material assignment sheet may be obtained from QC or developed by the QA Inspector. Mill reports or independent lab tests must verify satisfactory toughness testing for "CVN", "NTR" or Fracture Critical material. The material grade (e.g.: Gr. 36, 50, 50W for US Customary or Gr. 250, 345 or 345W for metric) must comply with the shop drawings. All steel material shall be certified on the mill report to be domestically produced ("Melted and Manufactured in the USA" or similar).

22. Report significant fabrication deficiencies (e.g.: requiring substantial removal and replacement of welds or paint, mislocated holes, misaligned members) on the daily log, including their cause and correction. Proposals to correct errors potentially affecting the adequacy of the member shall be submitted by the QC to the DEPARTMENT prior to beginning repairs.

23. Any erection devices or aids shown on the approved shop drawings shall warrant the same inspection as required for the project, but mill test reports and evidence of domestic origin are not required for temporary items not purchased by the DEPARTMENT.

SECTION IV - WELDING

Prior to Welding:

1. The QA Inspector shall verify the current qualifications of each welder for the project and, if not in full accord with the specifications, require qualification. Welder qualification shall be performed in accord with the applicable AWS code (D1.1, D1.2 or D1.5), and the QA Inspector shall witness preparation of the test plates, the welding and testing of the coupons in the fabricator's shop. (In the absence of test facilities in the shop, the fabricator shall forward the properly identified coupons to a testing laboratory acceptable to the Department). Also, discuss with quality control the method of identifying each welder's work noting that no permanent indications (die stamps, welded figures) shall be allowed on finished work.

2. Ensure weld procedures are ILDOT approved and that the procedure is understood by the welders, welding foremen and quality control.

3. Prior to fitting welded joints, examine the condition of the material, especially for defects or contamination in the joint area.

4. Check joints that are to be welded, including root face, angle of bevel, the alignment of the parts to be joined, and the uniformity and size of root openings.

5. When applicable, ensure run-off tabs are of adequate length, shape and size to allow full weld throat the entire length of the joint.

6. Check surfaces to be welded for cleanliness as required by specifications. Make sure stipulated surfaces are free of mill scale, rust, oil, grease or other foreign material that would be detrimental to welding.

7. Visually inspect tack welds for cleanliness and flaws. They are to be as small as practical. No temporary welds are allowed on any flange or web solely for positioning or restraint. Tack welds on flanges and webs must be incorporated in the final weld.

8. Review weld joints shown on the shop drawings for potential restraint conditions which may require weld sequencing or heating parameters not on the approved weld procedure, and notify QC and the DEPARTMENT of such situations.

9. Review shop report forms utilized for nondestructive testing and discuss any concerns with Quality Control.

10. Discuss with Quality Control the condition and calibration of welding equipment. Verify amperage and voltage gauges are periodically checked for accuracy and adjusted or replaced if necessary, and that calibration equipment is periodically certified and properly utilized.

<u>During Welding</u>:

1. Ensure the correct types and sizes of weld consumables are utilized, are in satisfactory condition and are stored properly to prevent damage. Bridge welding requires low-hydrogen processes, so consumables must be reconditioned or replaced after exposure, as provided by the specifications.

2. Periodically observe the technique and performance of welders to ensure procedures and techniques conform to the contract requirements. For fracture critical joints, plan for periodic inspection of multiple-pass welds. Arrange with the QC for the foreman to notify the QA Inspector before such work will be performed.

3. Ensure welding is done in accordance with the approved procedures, periodically verifying that the current, amperage, voltage, travel speed, preheat and interpass temperatures are within tolerances. Amperage and voltage gauges shall be checked regularly (once or twice per week for equipment used daily), and adjusted or replaced as required.

4. Ensure welds start in the groove or other area where weld is to be deposited, and not on the base metal outside of such areas. Tack welds shall be located and sized (after grinding) to be completely incorporated in the production weld unless they are made with preheat using an approved weld procedure. Cracked tack welds shall be removed before welding over their location.

5. Inspect root passes with special care, especially flange and web butt joints. On subsequent passes, observe if split layer technique is properly used where required.

6. Verify that the root and intermediate passes are cleaned and deficiencies corrected before succeeding weld passes. Wire brushing, grinding or chipping may be used to

remove slag between weld passes, but no unspecified peening or distorting ("caulking") of weld metal by hammering shall be permitted without the specific approval of the DEPARTMENT and under very carefully controlled conditions. (Slag removal with pneumatic tools or chipping hammers used as intended do not constitute peening.)

7. After butt welds of flanges for built-up members have cooled, the parts joined should be in alignment. If not, alignment corrections shall be made prior to assembly of member. Minor misalignment may be corrected by the controlled application of heat. If misalignment is significant, corrective work shall be done using methods approved by the Engineer.

8. Ensure that welds of proper size, length and location conform to the drawings. If welds are to be ground smooth and flush, final finishing should be parallel to the direction of the main stress in a member. All welds shall terminate in a satisfactory manner.

After Welding:

1. Welds shall be cleaned of slag and given a thorough examination by QC. When blast cleaning is required, a general examination of welds and material shall be done after blasting and before painting.

2. Any weld geometry exceeding welding code limits shall be corrected to meet tolerances. Ends of repair welds shall transition smoothly into existing welds.

3. Excess metal at butt welds shall be removed by grinding. Plate thickness or width transitions shall be sloped as shown on the shop drawings with smooth transitions at the toe of the slope. Over-grinding at this toe must be corrected using Engineer-approved methods before NDT.

4. All runoff tabs shall be removed without damaging permanent material. Flame-cutting may be used, provided the final preparation of edge is done by grinding.

SECTION V - RADIOGRAPHY AND RADIOGRAPHIC INSPECTION

1. All radiography and radiographic inspection shall be performed by the Contractor for the DEPARTMENT in accordance with the Contract.

2. The QA Inspector shall verify that radiographs are numbered in accordance with the requirements of the Radiograph Sheet and that all radiograph film numbers are recorded on the sheet corresponding to joint locations in the structure.

3. The QA Inspector shall review all radiograph reports and duly sign them when in agreement with the report. If the QA Inspector and the Contractor cannot agree with respect to the report, the Engineer will review any film in question, and provide a determination of acceptability. Once the report is signed, the QA Inspector shall keep the complete original set of reports and film until fabrication is complete and then submit all reports and radiographs to the DEPARTMENT for filing. On large structures, submittals may be on interim basis as required by the DEPARTMENT.

SECTION VI - MAGNETIC PARTICLE INSPECTION

1. The QA Inspector shall ensure magnetic particle inspection (MT) is done in accordance with ASTM E 709 and the Contract.

2. The Contractor performs the MT for the DEPARTMENT and submits a report to the QA Inspector of all findings. The QA Inspector shall periodically witness the testing and, if satisfied as to the technique and results, shall sign the reports, retaining the originals, giving the fabricator one and forwarding one to the DEPARTMENT. The Inspector shall keep a complete set of the original reports and forward them to the DEPARTMENT at the end of the project.

SECTION VII - ULTRASONIC INSPECTION

Unless otherwise directed by the Engineer, all ultrasonic testing (UT) required shall be performed by the Contractor in accordance with the Contract. The Contractor is to submit a report to the QA Inspector of all findings. The QA Inspector shall periodically witness the UT, including set-up and recalibration, and if satisfied with the technique and the test results, shall sign the UT reports. The QA Inspector witnessing the UT shall be familiar with its proper application. If the Engineer requires QA verification testing of the Contractor's findings or to examine areas not requiring UT in the Contract, the QA Inspector must be qualified as a Level II in UT by testing, training and experience in accord with the current edition of the American Society for Nondestructive Testing Recommended Practice No. SNT-TC-1A.

UT may also be required at field locations utilizing the Consultant's equipment when requested by the DEPARTMENT. (The Department shall provide access, traffic control and assistance as required).

For UT performed by the Contractor, the QA Inspector shall include the original reports in the project file and return one signed copy to the fabricator. For UT performed by the QA Inspector, a copy shall not be provided to the Contractor unless directed by the Engineer. The Inspector shall forward the original UT reports to the DEPARTMENT at the end of the project.

SECTION VIII - SHOP CLEANING AND PAINTING

1. QA Inspectors shall carefully review the ILDOT Standard Specifications and Contract Special Provisions covering the cleaning and painting of structural steel in the shop and verify that requirements are met. In case of disagreements on interpretation or acceptance, the Engineer will provide guidance.

2. No structural steel will be cleaned or painted in the shop until fabrication has been accepted by the inspector. Blast cleaned surfaces shall have proper profile and cleanliness. Primer must be applied within 24 hours and before any rust is visible.

3. The shop coat(s) shall be inspected for proper mixing, application, dry film thickness of individual or multiple coats and uniform coverage. Unless otherwise provided for small batches, the inspector shall have an approved test report issued by the Department for the batch of paint used. If not, the fabricator Contractor must submit samples taken from the batch (with the QA Inspector witnessing) and submitted to the Bureau of Materials and Physical Research for testing prior to painting. Paint must be applied when the

temperature and humidity are within acceptable limits and during the manufacturer's prescribed pot life. Paint may only be thinned in accord with the manufacturer's guidelines.

4. Special attention shall also be given to shop installed bolts. Cleaning, profile, subsequent primer coverage and adhesion shall be carefully monitored. For mechanically galvanized bolts, some galvanizing may remain after blast cleaning, as long as primer adhesion is not impaired. For black ASTM A490 bolts in painted areas, if blasting does not produce adequate profile due to the hard surface, exposed bolt surfaces must be cleaned and spot primed with a suitably adherent coating before priming the adjacent steel.

5. After shop painting, care shall be taken in the handling, storage and shipping of material to avoid damage or contamination (oil, etc.) of the surface. All damage noted shall be repaired in accord with Contract requirements and the paint manufacturers' guidelines prior to shipment.

29. Job No. D-91-094-05, FAI 55 (I-55), from U.S. 30 (Plainfield Rd.) to Naperville Rd., Will County, Region One/District One. (General Consultant)

The **Complexity Factor** for this project is **0.003**.

The Consultant selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 18, 2005** at **9:00 a.m.** at the District One Office in **Schaumburg.**

Phase II engineering services are required for the preparation of plans, special provisions, and estimates for the widening and reconstruction of approximately 6.4 miles of I-55 from U.S. 30(Plainfield Rd.) to Naperville Rd. including the structures over EJ&E railroad and for the management of the other Phase II Consultants. This project lies within Plainfield, Romeoville and Bolingbrook in Will County.

The proposed project consists of I-55 being reconstructed and widened to three lanes in each direction. The proposed typical section consists of a 12-ft. inside shoulder, three 12-ft. through lanes and a 12-ft. outside shoulder in each direction separated by a 3-ft. jersey barrier. No new interchanges or major interchange modifications are anticipated. All work for this project will be in English units.

The following structures are included in this project:

- I-55 NB & SB over EJ&E RR (existing S.N. 099-0018 & 099-0019). The scope of work consists of bridge widening and reconstruction. The existing structure is 220' long from back to back abutments and 49' wide. There are concrete parapets on each side. The proposed structure will accommodate the proposed reconstructed I-55 roadway pavement.

This Consultant will also act as the general Consultant for this reconstruction project. Duties of the general Consultant shall include, but are not limited to the following:

- Manage, coordinate, and set schedules for other Consultants contracted by the department. The number of other Consultants to be managed by this Consultant is anticpated to be between 4 and 6 and shall involve, but not be limited to the survey work, geotechnical reports, lighting and surveillance plans, structure plans and advance work.

- Monitor the progress of the design Consultants and maintain a system for tracking overall schedule and budget.

- Coordinate, attend and run monthly coordination meetings between the District and all design Consultants.

- Attend all coordination meetings between the affected municipalities.

- Coordinate the sharing of electronic files and other plan information between design Consultants.

- Act as a clearinghouse for all questions and problems raised by the design Consultants.

- Development of a temporary signing plan for the entire project limits.

- Coordinate project-wide staging and traffic control between design sections and other prime Consultants to assure a uniform and workable overall traffic management plan.

- Coordination of lighting plans prepared by each design section.

- Provide final packaging of all final plans and plan documents where necessary.

- Any other support tasks deemed necessary by the District to assist in the coordination of the overall project.

The department will furnish the Consultant with the Project Report, Bridge Condition Reports, available microfilm plans, aerial photography and previously performed aerial mapping surveys, and ground surveys, geotechnical report, structure plans for all other mainline structure and overhead bridges, and lighting plans.

The estimated construction cost for this project is $189,250,000.

Engineering services for the project are required to be completed in two parts. The first part shall consist of all initial design work such as maintenance of traffic staging concept plan preparation, TSL and plan preparation for the I-55 NB and SB structures over the EJ&E Railroad, other preliminary engineering, and Consultant management plans. Part I shall be completed by May 1, 2006.

The second part shall consist of the preparation of roadway plans, structure plans and Consultant management duties. Multiple contracts will be let for this segment of the expressway. A schedule for each contract will be developed after the staging concepts are finalized. The completion date for the first set of contracts is December 1, 2007.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform/supervise the work in the area of drainage calculations and preparation of the Drainage Report (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Freeways)
Structures (Highway: Typical)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

Statements of Interest for this item must be received by the Bureau of Design and Environment prior to 4:30 p.m. local time, February 23, 2005. Statements received after this time will NOT be considered.

30. Job No. D-91-093-05, FAI 55 (I-55), from I-80 to U.S. 30 (Plainfield Rd.), Will County, Region One/District One. (General Consultant)

The **Complexity Factor** for this project is **0.003**.

The Consultant selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 18, 2005** at **9:00 a.m.** at the District One Office in **Schaumburg.**

Phase II engineering services are required for the preparation of plans, special provisions, and estimates for the widening and reconstruction of approximately 8.4 miles of I-55 from I-80 to U.S. 30 (Plainfield Rd.), including the structures over U.S. 30 and for the management of the other Phase II Consultants. The project lies within Channahon, Shorewood, Joliet and Plainfield in Will County.

The proposed project consists of I-55 being reconstructed and widened to three lanes in each direction. The proposed typical section will consist of a 12-ft. inside shoulder, three 12-ft. through lanes and a 12-ft. outside shoulder in each direction separated by a 3-ft. jersey barrier. No new interchanges or major interchange modifications are anticipated. All work for this project will be in English units.

The following structures are included in this project:

- I-55 NB & SB over U.S. 30 (existing S.N. 099-0017 & 099-0016). The scope of work is widening with deck and structural steel replacement. The existing structures are 191'-0" long from back to back of abutments and 41'-10" wide. The roadway widths are 24'-0", the clear width is 9'-5" for the outside shoulders and 5'-5" for the inside shoulders. There are concrete parapets 1'-6" wide and approximately 2'-11" high. The two structures are separated by a 26'-2" open median. The superstructures consist of four continuous multi-beam spans. The structures each have seven 30" wide flange beams.

This Consultant will also act as the general Consultant for this reconstruction project. Duties of the general Consultant shall include, but are not limited to the following:

- Manage, coordinate, and set schedules for other Consultants contracted by the department. The number of other Consultants to be managed by this Consultant is anticipated to be between 4 and 6 and shall involve, but not be limited to the survey work, geotechnical reports, lighting and surveillance plans, structure plans and advance work.

- Monitor the progress of the design Consultants and maintain a system for tracking overall schedule and budget.

- Coordinate, attend and run monthly coordination meetings between the District and all design Consultants.

- Attend all coordination meetings between the affected municipalities.

- Coordinate the sharing of electronic files and other plan information between design Consultants.

- Act as a clearinghouse for all questions and problems raised by the design Consultants.

- Development of a temporary signing plan for the entire project limits.

- Coordinate project-wide staging and traffic control between design sections and other prime Consultants to assure a uniform and workable overall traffic management plan.

- Coordination of lighting plans prepared by each design section.

- Provide final packaging of all final plans and plan documents where necessary.

- Any other support tasks deemed necessary by the District to assist in the coordination of the overall project.

The department will furnish the Consultant with the Project Report, Bridge Condition Reports, available microfilm plans, aerial photography and previously performed aerial mapping and surveys, and ground surveys, geotechnical report, structure plans for all other mainline structures and overhead bridges and lighting plans.

The estimated construction cost for this project is $185,750,000

Engineering services for the project are required to be completed in two parts. The first part shall consist of all initial design work such as maintenance of traffic staging concept plan preparation, TSL plan preparation for the I-55 NB and SB structures over U.S. 30 and other preliminary engineering, and consultant management plans. Part I shall be completed by May 1, 2006.

The second part shall consist of the preparation of roadway plans, structure plans and consultant management duties. Multiple contracts will be let for this segment of the expressway. A schedule for each contract will be developed after the staging concepts are finalized. The completion date for the first set of contracts is December 1, 2007.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Manager for all aspects of the work documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the duties of Project Engineer, that individual in charge who is directly involved in the development of the contract documents (must be an Illinois Licensed Professional Engineer).

- The person who will perform the work in the area of structure plan preparation documents (must be an Illinois Licensed Structural Engineer). In addition, the staff performing this work must be identified.

- The person who will perform/supervise the work in the area of drainage calculations and preparation of the Drainage Report (must be an Illinois Licensed Professional Engineer).

- The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional Engineer for roadway work and must be an Illinois Licensed Structural Engineer for structural work with adequate plan review experience).

Firms must be prequalified in the following categories to be considered for this project:

Highways (Freeways)
Structures (Highway: Typical)

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

Statements of Interest for this item must be received by the Bureau of Design and Environment prior to 4:30 p.m. local time, February 23, 2005. Statements received after this time will NOT be considered.

31. **Job No. D-91-133-05, FAI 55(I-55), from I-80 to Naperville Rd., Will County, Region One/District One.**

The **Complexity Factor** for this project is **0**.

The Consultant selected for this project and all subconsultants the prime Consultant will be using are scheduled to attend an initial meeting on **April 18, 2005** at **1:00 P.M.** at the District One Office in **Schaumburg.**

Phase II engineering services are required for supplemental pick up field surveys for the widening and reconstruction of approximately 14.8 miles of I-55 from I-80 to Naperville Road. The project lies within Channahon, Shorewood, Joliet, Romeoville, Bollingbrook, and Plainfield in Will County. Work Orders under the blanket aggrement will be negotiated by the department on an as needed basis. All work for this project will be in English Units.

The department will furnish the Consultant with all available benchmarks and coordinate that can be used for the project(s), along with any archived survey notes.

The Consultant's work is anticpated to include, but is not limited to, route surveys, topographic surveys, cross-sections, profile, existing and proposed centerline alignments, drainage inverts, right-of-way monuments and land use determination, plotting of the field information collected, and bridge surveys of elements of the structures which are to remain in place. All survey information submitted must be acceptable for design purposes, and be formatted per IDOT specifications. All data collected electronically or plotted, must comply with IDOT CADD standards and use standard IDOT Survey Point Codes.

This work must be completed within 24 months after authorization to proceed.

Key personnel listed on **Exhibit A** for this project must include:

- The person who will assume the duties of Project Engineer, that individual responsible for the actual field survey (must be an Illinois Professional Engineer or an Illinois Licensed Land Surveyor).

- The person who will perform the QC/QA review work of all milestone submittal documents (must be an Illinois Licensed Professional or an Illinois Licensed Land Surveyor).

Firms must be prequalified in the **Special Services (Route Surveys)** category to be considered for this project.

Statements of Interest, including resumes of the key people noted above, must be submitted electronically to the Central Bureau of Design and Environment at the following address: SOIPTB@dot.il.gov.

Statements of Interest for this item must be received by the Bureau of Design and Environment prior to 4:30 p.m. local time, February 23, 2005. Statements received after this time will NOT be considered.